

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS/OPS OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 119 (GREAT SENECA HIGHWAY) AND MD 124 (QUINCE ORCHARD ROAD) IN MONTGOMERY COUNTY. MD 119 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA EIGHT-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTH APPROACHES OF MD 119. MD 119 THRU MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTH APPROACHES OF MD 124. MD 124 THRU MOVEMENTS WILL RUN CONCURRENTLY. THERE IS A PEDESTRIAN PHASE FOR THE EAST AND WEST LEGS OF THE INTERSECTION CROSSING MD 124. THERE ARE ALTERNATE PEDESTRIAN PHASES FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION CROSSING MD 119.

EQUIPMENT LIST FOR CONTRACT NO. XY1515185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
900000	43	SF	SHEET ALUMINUM GROUND MOUNTED SIGN
	4	EA	W11-2 (30" x 30") GROUND MOUNTED
	2	EA	W16-7L (24" x 12") GROUND MOUNTED
	2	EA	W16-7R (24" x 12") GROUND MOUNTED
	2	EA	R4-7 (24" x 30") GROUND MOUNTED
900000	8	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	8	EA	R10-3(f) (9" x 15") POLE MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC
201032	4	CY	CLASS 2 EXCAVATION
203030	4	CY	TEST PIT EXCAVATION
504150	4.2	TON	HOT MIX ASPHALT SUPERPAVE 9.5MM FOR SURFACE, PG76-22, LEVEL-3
520109	36	SY	3 INCH GRADED AGGREGATE BASE COURSE
585621	1100	LF	12 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES
585625	115	LF	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES
585700	1250	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING LINES, ANY WIDTH
600000	580	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	235	LF	TYPE A CURB ANY HEIGHT OR DEPTH
655105	2530	SF	5 INCH CONCRETE SIDEWALK
655120	175	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704345	26	SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
705500	26	SY	TURFGRASS ESTABLISHMENT
708220	26	SY	TURFGRASS SOD ESTABLISHMENT
800000	90	LF	DISCONNECT, PULL BACK AND REROUTE CABLES
800000	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT
800000	8	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	1	EA	CONDUIT BEND IN EXISTING FOUNDATION BASE (ANY SIZE)
800000	8	EA	5 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
800000	80	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED OR SLOTTED
800000	135	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	51	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1	EA	THIRD PARTY CONCRETE TESTING
800000	80	LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
802501	215	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
811001	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
861105	1600	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1300	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED.

ALL EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

CONTACTS

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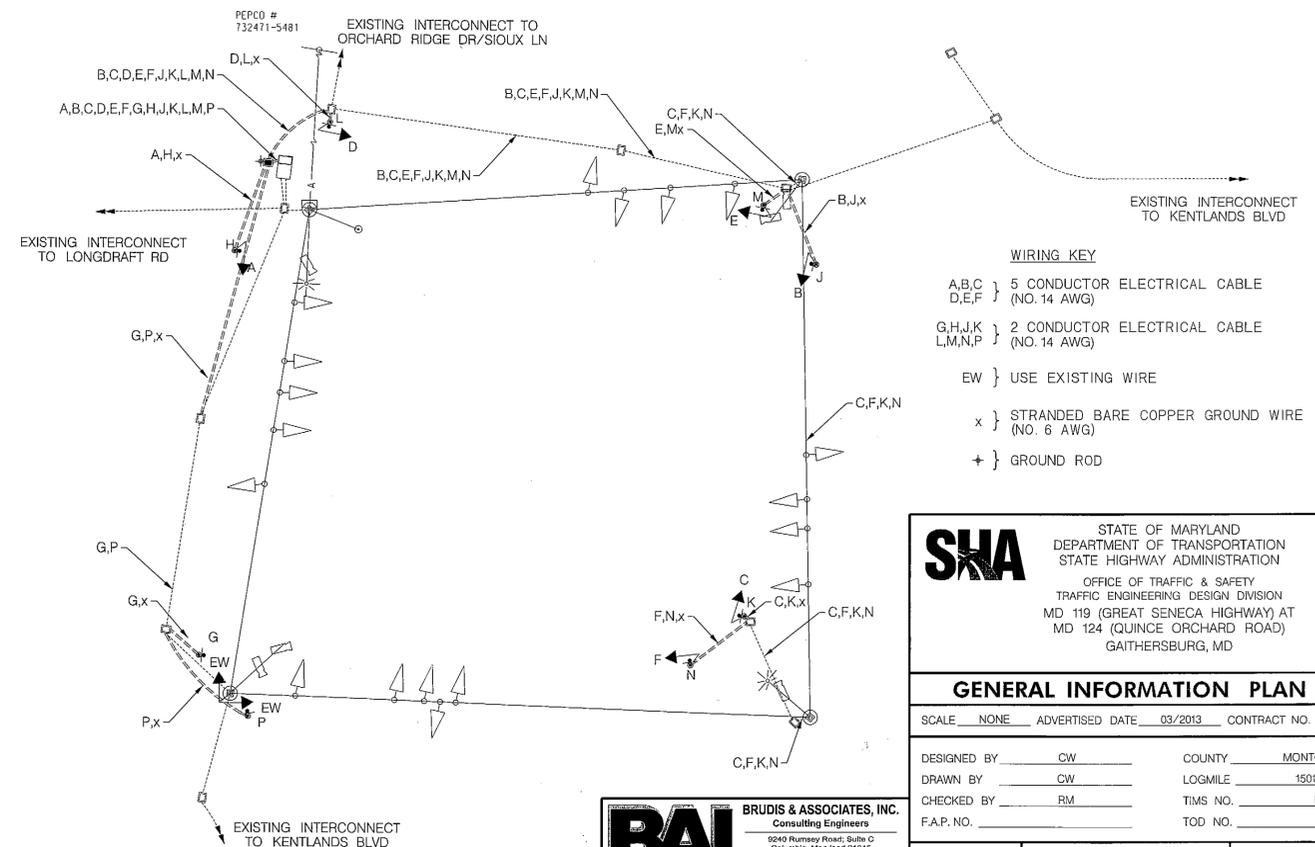
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PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
PHASE 1 AND 5	←-G	←-G	←-G	R	R	←-G	←-G	R	R	←-R	←-R	R	R	←-R	←-R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5 OR 2 AND 6																										
PHASE 1 AND 6	←-R	←-R	←-R	R	R	←-G	←-G	G	G	←-R	←-R	R	R	←-R	←-R	←-R	R	R	DW							
1 CHANGE	←-R	←-R	←-R	R	R	←-Y	←-Y	G	G	←-R	←-R	R	R	←-R	←-R	←-R	R	R	DW							
PHASE 2 AND 5	←-G	←-G	←-G	G	G	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	←-R	R	R	DW							
5 CHANGE	←-Y	←-Y	←-Y	G	G	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	←-R	R	R	DW							
PHASE 2 AND 6	←-R	←-R	←-R	G	G	←-R	←-R	G	G	←-R	←-R	R	R	←-R	←-R	←-R	R	R	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	←-R	←-R	←-R	G	G	←-R	←-R	G	G	←-R	←-R	R	R	←-R	←-R	←-R	R	R	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
2 AND 6 CHANGE	←-R	←-R	←-R	Y	Y	←-R	←-R	Y	Y	←-R	←-R	R	R	←-R	←-R	←-R	R	R	DW							
PHASE 3 AND 7	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-G	←-G	R	R	←-G	←-G	←-G	R	R	DW							
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7 OR 4 AND 8																										
PHASE 3 AND 8	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-G	←-G	G	G	←-R	←-R	←-R	R	R	DW							
3 CHANGE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-Y	←-Y	G	G	←-R	←-R	←-R	R	R	DW							
PHASE 4 AND 7	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	R	R	←-G	←-G	←-G	G	G	DW							
7 CHANGE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	R	R	←-Y	←-Y	←-Y	G	G	DW							
PHASE 4 AND 8	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	G	G	←-R	←-R	←-R	G	G	DW							
4 AND 8 CHANGE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	Y	Y	←-R	←-R	←-R	Y	Y	DW							
4 ALT AND 8 ALT	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	G	G	←-R	←-R	←-R	G	G	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	G	G	←-R	←-R	←-R	G	G	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
4 ALT & 8 ALT CHANGE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	←-R	←-R	Y	Y	←-R	←-R	←-R	Y	Y	DW							
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	DARK															

WIRING DIAGRAM



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 119 (GREAT SENECA HIGHWAY) AT
MD 124 (QUINCE ORCHARD ROAD)
GAITHERSBURG, MD

GENERAL INFORMATION PLAN SHEET

SCALE	NONE	ADVERTISED DATE	03/2013	CONTRACT NO.	XY1515185
DESIGNED BY	CW	COUNTY	MONTGOMERY		
DRAWN BY	CW	LOGMILE	150/1802.57		
CHECKED BY	RM	TIMS NO.	L803		
F.A.P. NO.		TOD NO.			

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